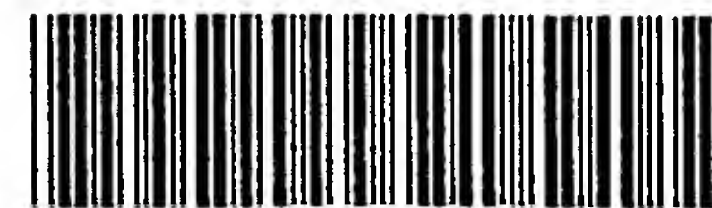# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/587,606_

Source: _1FWP_

Date Processed by STIC: _8/8/06_

ENTERED

IFWP

RAW SEQUENCE LISTING   DATE: 08/08/2006
PATENT APPLICATION: US/10/587,606   TIME: 08:59:59

Input Set : A:\68074-A-PCT_SEQ_LIST.ST25.txt
Output Set: N:\CRF4\08082006\J587606.raw

```
     3  <110> APPLICANT: Fine, Robert L
     4         Brandt-Rauf, Paul
     5         Mao, Yueha
     7  <120> TITLE OF INVENTION: C-Terminal p53 Palindromic Peptide That Induces Apoptosis of
     8         Cells with Aberrant p53 and Uses Thereof
    10  <130> FILE REFERENCE: 68074-A-PCT-US/JPW/JW
C--> 12  <140> CURRENT APPLICATION NUMBER: US/10/587,606
C--> 12  <141> CURRENT FILING DATE: 2006-07-27
    12  <150> PRIOR APPLICATION NUMBER: PCT/US2005/002543
    13  <151> PRIOR FILING DATE: 2005-01-27
    15  <150> PRIOR APPLICATION NUMBER: US 60/540,864
    16  <151> PRIOR FILING DATE: 2004-01-30
    18  <160> NUMBER OF SEQ ID NOS: 9
    20  <170> SOFTWARE: PatentIn version 3.3
    22  <210> SEQ ID NO: 1
    23  <211> LENGTH: 41
    24  <212> TYPE: PRT
    25  <213> ORGANISM: Artificial Sequence
    27  <220> FEATURE:
    28  <223> OTHER INFORMATION: Polypeptide based on human p53
    30  <400> SEQUENCE: 1
    32  Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
    33  1               5                   10                  15
    36  Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
    37              20                  25                  30
    40  Phe Lys Thr Glu Gly Pro Asp Ser Asp
    41              35                  40
    44  <210> SEQ ID NO: 2
    45  <211> LENGTH: 41
    46  <212> TYPE: PRT
    47  <213> ORGANISM: Artificial Sequence
    49  <220> FEATURE:
    50  <223> OTHER INFORMATION: Polypeptide based on human p53
    52  <400> SEQUENCE: 2
    54  Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser
    55  1               5                   10                  15
    58  Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser
    59              20                  25                  30
    62  Gly Gly Pro Glu Lys Gly Ala Gln Ala
    63              35                  40
    66  <210> SEQ ID NO: 3
    67  <211> LENGTH: 83
    68  <212> TYPE: PRT
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RAW SEQUENCE LISTING   DATE: 08/08/2006
PATENT APPLICATION: US/10/587,606   TIME: 08:59:59

Input Set : A:\68074-A-PCT_SEQ_LIST.ST25.txt
Output Set: N:\CRF4\08082006\J587606.raw

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 69 <213> ORGANISM: Artificial Sequence
 71 <220> FEATURE:
 72 <223> OTHER INFORMATION: Palindromic polypeptide based on human p53
 75 <220> FEATURE:
 76 <221> NAME/KEY: MISC_FEATURE
 77 <222> LOCATION: (42)..(42)
 78 <223> OTHER INFORMATION: Xaa = Gly or absent
 80 <400> SEQUENCE: 3
 82 Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
 83 1               5                  10                  15
 86 Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
 87             20                  25                  30
 90 Phe Lys Thr Glu Gly Pro Asp Ser Asp Xaa Asp Ser Asp Pro Gly Glu
 91         35                  40                  45
 94 Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys Lys
 95     50                  55                  60
 98 Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys Gly
 99 65                  70                  75                  80
102 Ala Gln Ala
106 <210> SEQ ID NO: 4
107 <211> LENGTH: 83
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: Palindromic polypeptide based on human p53
115 <220> FEATURE:
116 <221> NAME/KEY: MISC_FEATURE
117 <222> LOCATION: (42)..(42)
118 <223> OTHER INFORMATION: Xaa = Gly or absent
120 <400> SEQUENCE: 4
122 Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser
123 1               5                  10                  15
126 Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser
127             20                  25                  30
130 Gly Gly Pro Glu Lys Gly Ala Gln Ala Xaa Ala Gln Ala Gly Lys Glu
131         35                  40                  45
134 Pro Gly Gly Ser Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly
135     50                  55                  60
138 Gln Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys Thr Glu Gly Pro
139 65                  70                  75                  80
142 Asp Ser Asp
146 <210> SEQ ID NO: 5
147 <211> LENGTH: 167
148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Palindromic polypeptide based on human p53
155 <220> FEATURE:
156 <221> NAME/KEY: MISC_FEATURE
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W--> (lines 90 and 130)

RAW SEQUENCE LISTING   DATE: 08/08/2006
PATENT APPLICATION: US/10/587,606   TIME: 08:59:59

Input Set : A:\68074-A-PCT_SEQ_LIST.ST25.txt
Output Set: N:\CRF4\08082006\J587606.raw

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157 <222> LOCATION: (42)..(42)
158 <223> OTHER INFORMATION: Xaa = Gly or absent
160 <220> FEATURE:
161 <221> NAME/KEY: MISC_FEATURE
162 <222> LOCATION: (84)..(84)
163 <223> OTHER INFORMATION: Xaa = Gly or absent
165 <220> FEATURE:
166 <221> NAME/KEY: MISC_FEATURE
167 <222> LOCATION: (126)..(126)
168 <223> OTHER INFORMATION: Xaa = Gly or absent
170 <400> SEQUENCE: 5
172 Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
173 1               5                   10                  15
176 Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
177             20                  25                  30
```
W--> 180 **Phe Lys Thr Glu Gly Pro Asp Ser Asp Xaa Asp Ser Asp Pro Gly Glu**
```
181         35              40                  45
184 Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys Lys
185     50                  55                  60
188 Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys Gly
189 65                  70                  75                  80
192 Ala Gln Ala Xaa Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala
193             85                  90                  95
196 His Ser Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His
197             100                 105                 110
200 Lys Lys Leu Met Phe Lys Thr Glu Gly Pro Asp Ser Asp Xaa Asp Ser
201             115                 120                 125
204 Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser
205         130                 135                 140
208 Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly
209 145                 150                 155                 160
212 Pro Glu Lys Gly Ala Gln Ala
213                 165
216 <210> SEQ ID NO: 6
217 <211> LENGTH: 167
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Palindromic polypeptide based on human p53
225 <220> FEATURE:
226 <221> NAME/KEY: MISC_FEATURE
227 <222> LOCATION: (42)..(42)
228 <223> OTHER INFORMATION: Xaa = Gly or absent
230 <220> FEATURE:
231 <221> NAME/KEY: MISC_FEATURE
232 <222> LOCATION: (84)..(84)
233 <223> OTHER INFORMATION: Xaa = Gly or absent
235 <220> FEATURE:
236 <221> NAME/KEY: MISC_FEATURE
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237 <222> LOCATION: (126)..(126)
238 <223> OTHER INFORMATION: Xaa = Gly or absent
240 <400> SEQUENCE: 6
242 Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser
243 1               5                   10                  15
246 Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser
247             20                  25                  30
```

W-->
```
250 Gly Gly Pro Glu Lys Gly Ala Gln Ala Xaa Ala Gln Ala Gly Lys Glu
251         35                  40                  45
254 Pro Gly Gly Ser Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly
255     50                  55                  60
258 Gln Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys Thr Glu Gly Pro
259 65                  70                  75                  80
262 Asp Ser Asp Xaa Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys
263                 85                  90                  95
266 Lys His Arg Ser Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser
267             100                 105                 110
270 His Ala Arg Ser Gly Gly Pro Glu Lys Gly Ala Gln Ala Xaa Ala Gln
271             115                 120                 125
274 Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His Leu Lys
275         130                 135                 140
278 Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys
279 145                 150                 155                 160
282 Thr Glu Gly Pro Asp Ser Asp
283                 165
286 <210> SEQ ID NO: 7
287 <211> LENGTH: 164
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Palindromic polypeptide based on human p53
294 <400> SEQUENCE: 7
296 Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
297 1               5                   10                  15
300 Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
301             20                  25                  30
304 Phe Lys Thr Glu Gly Pro Asp Ser Asp Ser Asp Pro Gly Glu Thr
305         35                  40                  45
308 Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys Lys Ser
309     50                  55                  60
312 Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys Gly Ala
313 65                  70                  75                  80
316 Gln Ala Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser
317             85                  90                  95
320 Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys
321             100                 105                 110
324 Leu Met Phe Lys Thr Glu Gly Pro Asp Ser Asp Asp Ser Asp Pro Gly
325         115                 120                 125
328 Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys
```

RAW SEQUENCE LISTING   DATE: 08/08/2006
PATENT APPLICATION: US/10/587,606   TIME: 08:59:59

Input Set : A:\68074-A-PCT_SEQ_LIST.ST25.txt
Output Set: N:\CRF4\08082006\J587606.raw

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329     130                  135                  140
332 Lys Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys
333 145                 150                  155                  160
336 Gly Ala Gln Ala
340 <210> SEQ ID NO: 8
341 <211> LENGTH: 17
342 <212> TYPE: PRT
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: Membrane carrier peptide derived from Antennaepedia
348 <400> SEQUENCE: 8
350 Lys Lys Trp Lys Met Arg Arg Asn Gln Phe Trp Val Lys Val Gln Arg
351 1               5                   10                  15
354 Gly
358 <210> SEQ ID NO: 9
359 <211> LENGTH: 6
360 <212> TYPE: DNA
361 <213> ORGANISM: Artificial Sequence
363 <220> FEATURE:
364 <223> OTHER INFORMATION: Restriction enzyme site derived from human p53
366 <400> SEQUENCE: 9
367 ggccgg                                                          6
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/08/2006
PATENT APPLICATION: US/10/587,606   TIME: 09:00:00

Input Set : **A:\68074-A-PCT_SEQ_LIST.ST25.txt**
Output Set: **N:\CRF4\08082006\J587606.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 42 '
Seq#:4; Xaa Pos. 42
Seq#:5; Xaa Pos. 42,84,126'
Seq#:6; Xaa Pos. 42,84,126

VERIFICATION SUMMARY   DATE: 08/08/2006
PATENT APPLICATION: **US/10/587,606**   TIME: 09:00:00

Input Set : **A:\68074-A-PCT_SEQ_LIST.ST25.txt**
Output Set: **N:\CRF4\08082006\J587606.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:32
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:32
M:341 Repeated in SeqNo=5
L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:32
M:341 Repeated in SeqNo=6